



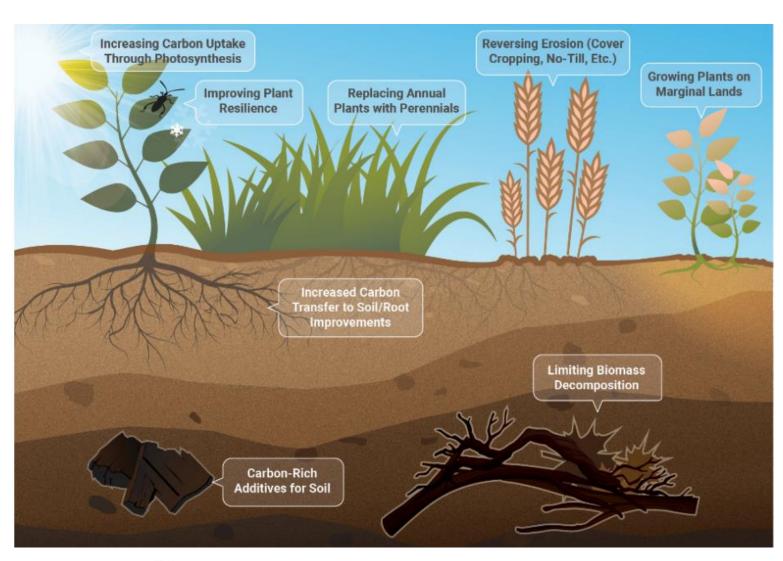
Breakout 2 - Systems

Priorities for this discussion

- Synergies/tradeoffs
 - Combined approaches
 - Environmental conditions
 - Land uses
- Accounting methods
 - Tools
 - Timing
 - Certainty



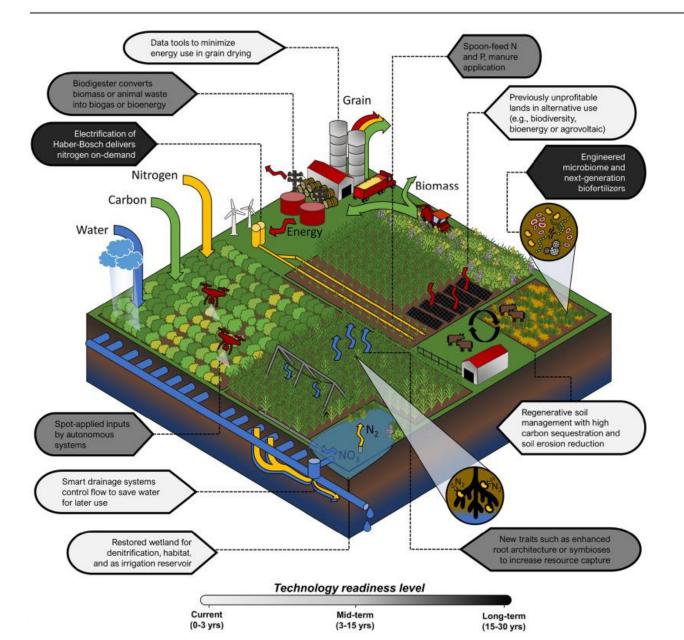
Which pathways offer the greatest potential across various environmental conditions*?



- Potential to enhance the density and/or rate of carbon removal despite variations in environment?
- Potential to promote climate resilience?
- Potential to enhance ecosystem services?



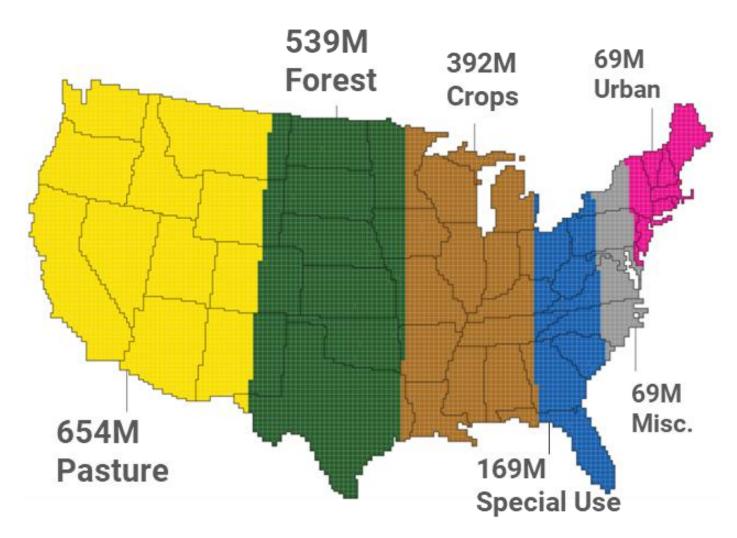
How many "miracles" make sense?



- Which combinations have the greatest co-benefits/potential for impact? e.g.,
 - Plant + microbe
 - Microbe + biochar
 - Plant + microbe + enhanced weathering
 - Enabling management tools
 - Other combinations

How many approaches before a project becomes too complex to manage?

Which land uses offer the greatest potential for parallel carbon farming pathways?

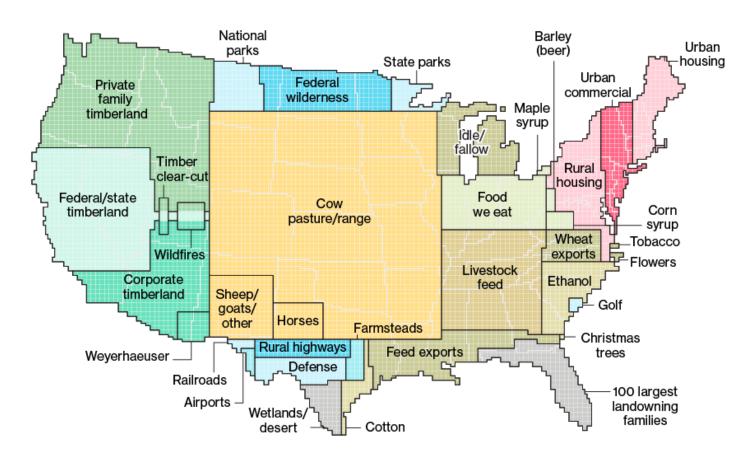


- Potential to sequester the most carbon?
- Potential to offer the greatest economic benefit?
- Potential to accommodate the greatest number of approaches?



What do we know about how these land uses will change with a changing climate?

Which land uses offer the greatest potential for exclusive carbon farming pathways?



- Potential to sequester the most carbon?
- Potential to offer the greatest economic benefit?
- Potential to accommodate the greatest number of approaches?



Carbon Farming Accounting

- Do we have the tools we need? If we assume SMARTFARM is successful in bringing high-certainty/low-cost MRV for soil carbon and N₂O to market, what MRV gaps remain?
- What is the appropriate timeframe over which to assess net carbon intensity, when factoring in:
 - Soil carbon (organic and inorganic)
 - Biomass carbon
 - N₂O, CH₄, CO₂ emissions
- What about indirect removal pathways e.g., crop protection products that would enable greater root growth – should those be considered in scope given the potential for carbon-independent value?
- To what extent should feedstock carbon credits be tied to use and end-of-life?

